

ABSTRACT

There is provided an optical signal monitoring method and apparatus for measuring the characteristics of an input WDM optical signal. In the optical signal monitoring 5 method, the WDM optical signal is combined with reference lights at both sides of the WDM optical signal on the wavelength spectrum. The combined signal is input to a filter having a variable transmission wavelength according to an applied driving voltage. A driving voltage-light intensity graph of a combined optical signal detected from the filter is derived in its overall wavelength band. A linear approximated wavelength is obtained with 10 respect to a driving voltage and a non-linear compensated wavelength is calculated in a predetermined non-linear compensation formula with the driving voltage and the operation temperature of the filter.